

Abstract of the Disclosure

As a result of studies conducted with polymer-cell suspensions forming interpenetrating polymer networks, it has been determined that polymer solutions can be formulated wherein the active species is provided by exposure of the polymer solution to an exogenous source of active species, typically electromagnetic radiation, preferably light. Studies demonstrate that light will penetrate through skin, body fluids (such as synovial fluid) and membranes and polymerize the polymer solutions. The polymer solutions can be crosslinked ionically or covalently, to form a hydrogel, semi-interpenetrating polymer network or an interpenetrating polymer network.